

## K12 Lab Network Resource Guide

### 1. Ways to Connect

- The K12 Lab Network hosts office hours at the d.school every Monday from 4-6 PM until June 8th. Stop in to meet Susie Wise, Katie Krummeck, Devon Young, Gabrielle Santa-Donato, this year's edufellows, and other interested and interesting people. Please email [K12@dschool.stanford.edu](mailto:K12@dschool.stanford.edu) to let us know if you plan to join office hours. Note: office hours are not offered on some Mondays -- please be sure to check [the calendar](#) before planning to drop by.
- Stay tuned for upcoming opportunities by [joining our e-mail list](#) and checking our K12 Lab Network [blog](#).
- The K12 Lab Network offers individual workshops for small teams of school leaders and educators based on availability of our team. Please email [K12@dschool.stanford.edu](mailto:K12@dschool.stanford.edu) for more information.

### 2. Building Connections

- [K12 Lab Network blog](#): The best place to learn about the latest and greatest at the d.school's K12 Lab Network. Includes blog posts, a calendar of events and links to resources.
- [d.school Website](#): Same as above, but for the d.school as a whole. Includes information about the [public tour of the d.school](#).
- [The Whiteboard](#): A blog that captures the learnings and reflections of the yearly cohort of d.school project fellows, including our Edu Fellows.
- [Sign up for the K12 Lab Network mailing list here](#). All events and opportunities to be involved with the K12 Lab Network are announced here. You can also email us directly at [K12@dschool.stanford.edu](mailto:K12@dschool.stanford.edu).
- Join the [K12 Lab Network Facebook page](#). Another way to get connected with educators who have been to an event that the K12 Lab Network has hosted.
- [Design Thinking in Schools](#): The d.school, partnership with IDEO, created this map of schools all over the world integrating design thinking into their curriculum.
- [#dtK12](#): A twitter hash tag where the twitter-verse goes for all things design thinking in education. Related: [#dtK12chat](#), a weekly twitter chat on design thinking in K12 education, held on Wednesdays from 6-7 PM PST.
- [#dtK12curric](#): A chance for you to share and review any design thinking curriculum that exists in the K12 sphere.
- Follow [@K12lab](#) on twitter for invitations and information about the latest goings on and workshop offerings.

- If you are looking for long-term consulting related to bringing design thinking to your school or community, the following folks are independent consultants who share our methods and with whom we love working.
  - Aaron Wilson at the Experience Institute [aaron@expinstitute.com](mailto:aaron@expinstitute.com)
  - Coeylen Barry at [coeylen@gmail.com](mailto:coeylen@gmail.com)
  - Debi Parizek at [Henry Ford Learning Institute](http://HenryFordLearningInstitute.com)
  - Juliette LaMontagne at [juliettelamontagne@gmail.com](mailto:juliettelamontagne@gmail.com)
  - Jessica Hastings Munro at [Entrepreneurs by Design](http://EntrepreneursbyDesign.com)
  - Maureen Carroll at [maureen@limesdesignassociates.com](mailto:maureen@limesdesignassociates.com)
  - Sarah Barthelow at [Wonder Innovation Labs](http://WonderInnovationLabs.com)

### 3. K12 Lab Network Projects & Initiatives

- [d. home team](#) is an initiative working with a network of Bay Area schools to support educators incorporating design thinking into their curriculum and practices. It is a model for innovative teacher professional development that, once tested and established, will be replicable in multiple regions.
- [School Retool](#) is a professional development fellowship that helps school leaders redesign their school's culture using small, scrappy experiments called "hacks." Hacks may start small, but they're build on research-based practices that lead to [Deeper Learning](#), and can create the kind of big changes school leaders strive to create.
- [SparkTruck](#) is a mobile maker lab for kids that has recently pivoted to work directly with educators to inspire hands-on, maker-inspired learning in classrooms across the Bay Area.
  - [Check out this documentary about SparkTruck](#) to learn more about the truck's first cross-country trek.
  - Check out the [SparkTruck Resources](#) page for information on building a SparkTruck of your own, designing SparkTruck-inspired lessons and tapping into other maker resources.
- [Project Breaker](#) is an organization whose mission is to create powerful, real world learning experiences for young adults by empowering them with design tools and an entrepreneurial approach to creating value in the world.

### 4. Toolkits & Curricular Resources

There are multiple resources and collections of design methods out there. Not all of these are specifically designed for education, but they are all useful when exploring and using design thinking.

- [K12 Lab Network wiki](#): This site is under construction and will be updated soon, but in the meantime, there is some really awesome stuff in there, if you're willing to dig a bit.
  - [Research on Design Thinking](#): Check out this list of research articles and resources discussing the intersections of design thinking and learning.

- [Design Thinking for Educators](#) (IDEO): This toolkit is the most explicitly geared towards K12 educators. It's focused more on school-wide organizational change than running design challenges in the classroom.
- [Bootcamp Bootleg](#) (d.school): Check out this set of "method cards" to provide bite-sized explanations of different techniques for each phase of the design thinking process.
- [Design Thinking Crash Course](#) (d.school): This is a virtual crash course on design thinking, complete with facilitation via video and handouts. Best done in groups, as this is a paired activity.
- The [REDLab](#)'s mission is to conduct research to inform our understanding of design thinking in K12, undergraduate and graduate educational settings. REDLab publishes excellent design thinking curriculum.
- Take on the [Future of Stuff Challenge](#), a curated, extended online design thinking project focused on the future of manufacturing.
- [Extreme By Design documentary](#): Check out this documentary that was created about the d.school class Design for Extreme Affordability. [Ralph King developed curriculum to be used alongside the movie to enhance students' learning.](#)
- Check out this online [Design Kit](#) created by IDEO.org to help you get started designing.
- [Collaborative Action Toolkit](#) (frog design): This toolkit is geared towards groups of people who want to make change in the communities around them.
- [IDEO method cards](#): Another set of "method cards" -- unfortunately, these aren't free. IDEO recently published an [iPhone app](#) that is free.
- [Design for Change](#) is a global movement designed to give children an opportunity to express their own ideas for a better world and put them into action.
- [Agency By Design](#) is an initiative of [Harvard's Project Zero](#). Agency By Design focuses on educational initiatives that emphasize making, design, engineering, and tinkering are gaining traction in schools and organizations across the country.

## 5. Design Thinking & Creativity Activities for Kids

The K12 Lab Network is focused on bringing design thinking and creative confidence to young people via working directly with educators. We do not currently have any programming for children. See below for Bay Area programs that serves kids directly.

- **Events**

- [Maker Faire](#)

- Events for tinkerers, makers, and hackers of all kinds. There's everything from soldering lessons to giant robots. Best for kids old enough to make things with their hands.

- **Summer Camps**

- [Camp Imagineerz](#)

- Day camp for grades 1-4 in Mountain View and Los Altos. Lots of building, storytelling, and outdoor games.

- [SF Brightworks Summer Day Camp](#)

- Play, build, and learn with the staff of SF Brightworks, a new private school in San Francisco with a radically experiential curriculum.

- [Galileo Learning](#)

- Science, art, tech, and outdoors summer camps throughout California for kids ages K-8. Emphasis on creativity & exploratory learning.

- **Ongoing**

- [Children's Creativity Museum](#)

- Museum in SF great for kids of all ages, with a focus on creativity and the arts. Workshops and special programs available.

- [Exploratorium](#)

- The granddaddy of experiential learning museums is not just for rainy Saturdays. They offer day camps, workshops, and programs tailored to homeschoolers. We especially love the Tinkering Studio.

- [Tech Museum](#)

- The Tech Museum of Innovation is a hands-on technology and science museum for people of all ages and backgrounds. The museum-located in the Capital of Silicon Valley - is a non-profit learning resource established to inspire the innovator in everyone. Through programs such as The Tech Challenge, our annual team design competition for youth, and internationally renowned programs such as The Tech Awards, The Tech celebrates the present and encourages the development of innovative technology for a more promising future.

- **Materials**

- [RAFT \(Resource Area For Teachers\)](#)

RAFT makes low-priced craft and learning kits for kids out of industrial surplus materials. Their main warehouse in San Jose is only open to teachers, but anybody can order kits from their website.

#### [SCRAP-SF](#)

A treasure trove of salvaged free and low-cost building and craft materials at a huge warehouse in the Bayview area of San Francisco. They also offer workshops

There's also a great blog, <http://tinkerlab.com>, that is a great resource for projects for kids.

### **6. Books & Things to Read/Watch**

- [Creative Confidence](#) (David & Tom Kelley)
- [Creating Innovators](#) (Tony Wagner)
- [The Art of Innovation](#) (Tom Kelley)
- [The Third Teacher](#) (Cannon Design)
- [Redesigning Your Classroom](#) (Edutopia)
- [Make Space](#) (Scott Doorley & Scott Witthoft)
- [Change by Design](#) (Tim Brown)
- [TED talk on creative confidence](#) (David Kelley)
- [Using Empathy in the Field: Doug Dietz](#)
- [Designing for the developing world: Jane Chen](#)
- [Extreme By Design documentary](#)
- [SparkTruck documentary](#)